Lunchtime Mardi Gras

You need ☑ a classmate

Arataki School is having a mardi gras at lunchtime.
Each senior class is raising money for the school camp.

Activity One

Eru's class has organised a hoopla stall. If you manage
to throw a hoop over a prize, you win that prize.
There are three options to choose from:

Mere's group

HOOPLA!

2 hoops for $1

9 hoops for $3

Simon's group

Eru's group

HOOPLA!

5 hoops for $2
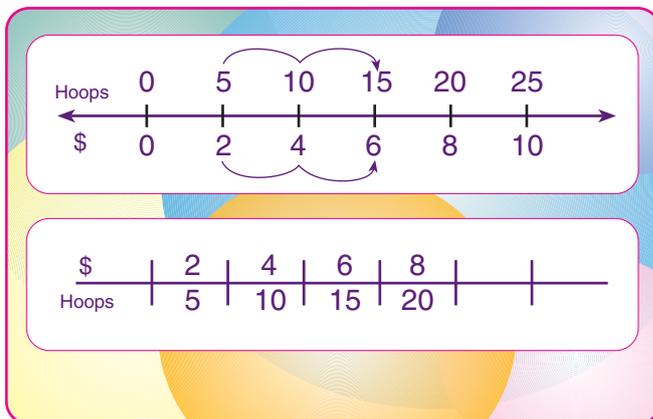
1. How much money would you pay for 15 hoops from Eru's group?

I can solve that using a double number line!

What about a ratio table?

Hoops	0	5	10	15	20	25
$	0	2	4	6	8	10

$		2	4	6	8		
Hoops		5	10	15	20		

2. At the end of lunchtime, each group compares the
amount of money they made and the number of
hoops thrown.

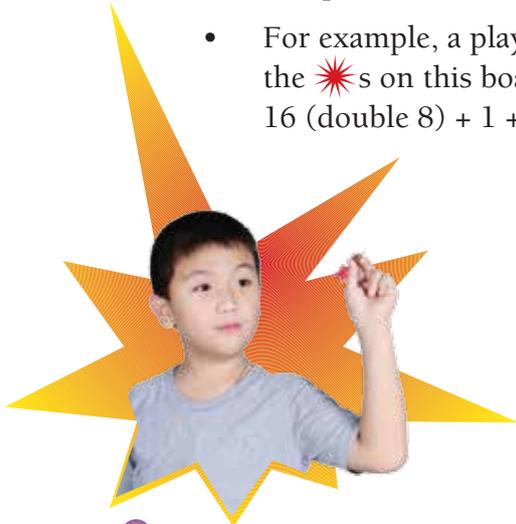| Group	Amount made ($)	Hoops thrown
Eru	60	
Simon		135
Mere		186

a. Copy and complete the table.

b. Which group made the most money?

c. Why do you think that was?

d. How much money was made altogether
at the hoopla stall?

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Activity Two

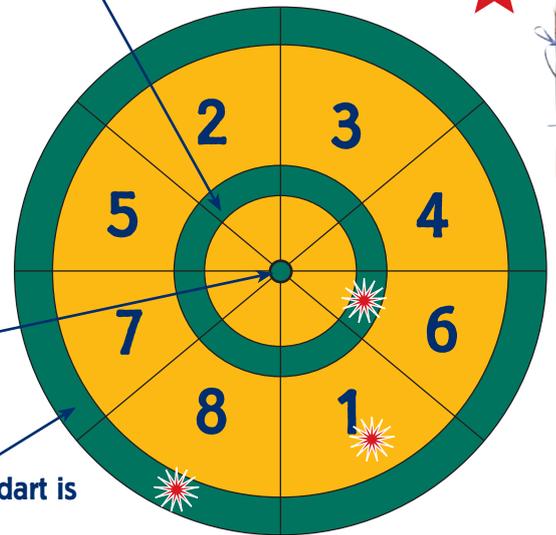Ese's class is running a dart game.

- Each player throws 3 darts.

- Their score is added up, and the total is recorded. (The top 3 scores for the day will win prizes.)

- For example, a player whose 3 darts landed at the ✳s on this board would score 16 (double 8) + 1 + 18 (triple 6) = 35.

Triple the number if the dart is in the inner ring.

Bullseye (30 points)

Double the number if the dart is in the outer ring.

1.
a. What are the 3 highest scores someone could get with 3 darts?
(You can get more than 1 dart in the same double or triple space or in the bullseye.)

b. One way to get a score of 38 is 12 (triple 4) + 14 (double 7) + 12 (double 6). Find 3 more ways to get a score of 38.

2. It costs 50 cents for 3 darts.

a. How many darts can a player get for $3.00?

b. Write a short cut that gives the number of darts received for the number of dollars paid.

c. How many darts would a player get if they paid $20?

d. If 306 darts were thrown altogether, how much money would have been paid?

3. Just before the bell, there are six children ready to play. Ese calls out the score for each dart and gets Callum to quickly add up the totals.

a. Quickly add up in your head the numbers Ese calls out each time.

i. 15, 24, 5	ii. 7, 3, 7
iii. 18, 16, 12	iv. 21, 21, 7
v. 14, 15, 16	vi. 9, 6, 15

b. Discuss with a classmate the strategies you used.

Activity Three*

Kim-Ly's class is running a cake stall. Kim-Ly is in charge of the money. She counts up the total every 10 minutes to encourage the sellers.

> We made $12.50 in the first 10 minutes, and 10 minutes later, we've got $34.70. How much have we made in those 10 minutes? $12.50 + \square = $34.70. That's $22.20.

1. Discuss with a classmate how Kim-Ly might have worked out $22.20 as the answer.

2. The totals at the end of the next four 10-minute periods were:

   a. $68.90 after 30 minutes

   b. $82.10 after 40 minutes

   c. $102.80 after 50 minutes

   d. $121.40 after 60 minutes.

   How much did Kim-Ly's class make in each 10-minute period? Discuss with a classmate how you worked these out.

Activity Four*

During the afternoon, Raj and Huia helped their teacher add up all the money from the different stalls. The stalls made these amounts:

Hoopla stall	Cake stall	Wet sponge	Face painting	Slippery pole	Darts
$198.00	$121.30	$121.20	$51.40	$48.60	$162.50

> I can do this without a calculator if I put the right numbers together.

1. What numbers do you think Raj combined? Discuss this with a classmate.

2. What is the total amount of money that Arataki School made?

* Currency amounts modified, November 2007

Writing and solving problems using whole numbers and decimals